Town of Palm Beach
Phipps Ocean Park - Beach Restoration Project

SEIS Supplement to Recommended Preliminary Design
February 26, 2004

This supplement to the report titled, *"Town of Palm Beach, Phipps Ocean Park - Beach Restoration, Recommended Preliminary Design"* (dated 1/27/00),

- addresses the potential for northerly migration of placed fill; and
- deletes references to the "No Action Alternative".

No Action Alternative

Subsequent to the completion of the recommended preliminary design in January 2000, a November 2003 field investigation was performed to define the location of rock above and below the beach, and the shoreline position within the Project Area.

Natural rock was located in the field by survey and probe methods; this rock has the potential to limit the landward recession of the shoreline within most of the project area. The model results for the predicted "No Action" shoreline position are affected by the rock data; see *Section 2.1.1 – Alternative 1 - "No Action" Alternative*. However, the location of rock at the surface and beneath the beach grade does not affect the conclusions of the recommended preliminary design, which entails fill placement that covers the rock and negates the effects of the rock. Appendix J references to the "No Action Alternative" have been deleted from page 5 and figure 9.

Potential for Northerly Migration of Sediment

It is realistic to expect that at least some temporary diffusive "spreading" to the north of the fill area may occur during southeast sea events. The GENESIS model results of a simulated southeast event (T=7 sec., H=5.9 feet) over the course of five days predict a migration of material approximately 225 feet northward from R-116 up to about 80 feet seaward of the "pre-fill" shoreline. The potentially impacted hardbottom area corresponds to 0.13 acre; this potential impact is included in the total impacts of the Applicant's Preferred Alternative as permitted by FDEP. Figure J 1.1, *Applicant's Preferred Alternative – Response to a Southeast Storm Event*, attached, shows the predicted shoreline response to the wave conditions described above.